WHAT IS CLAIMED IS:

1. A channel device comprising:

a substrate comprising a plurality of channels for electrophoretic separation; and

a plurality of deflectable cilia in fluid communication with the plurality of channels, wherein the deflectable cilia are adapted to loading the plurality of channels from a multi-well tray.

- 2. The channel device of claim 1, wherein the deflectable cilia are adapted for deflection by a support.
- 3. The channel device of claim 1, wherein the deflectable cilia are adapted for deflection by an active mechanism.
- 4. The channel device of claim 1, wherein the substrate comprises a detection zone.
 - 5. A system for electrophoretic separation comprising:

a channel device comprising a substrate comprising a plurality of channels and a plurality of deflectable cilia in fluid communication with the plurality of channels;

a multi-well tray; and

a support adapted to deflect the cilia to load the channels from the multi-well tray.

- 6. The system of claim 5, further comprising a controller adapted to position at least one of the channel device, the multi-well tray, and the support.
- 7. The system of claim 6, further comprising a CPU adapted to direct the controller.

- 8. The system of claim 7, further comprising a detector adapted to collect electrophoretic separation information at a detection zone on the channel device.
- 9. The system of claim 8, wherein the detector is in electrical communication with the CPU to correlate loading information from the controller and electrophoretic separation information from the detector.
- 10. The system of claim 5, further comprising a buffer tray, wherein the support is adapted to deflect each of the cilia into the buffer tray.
- 11. A loading mechanism for a channel device comprising:
 a plurality of deflectable cilia adapted to fluidly communicate with a
 plurality of channels in a substrate for electrophoretic separation, wherein the
 deflectable cilia are adapted to loading the plurality of channels from a multi-

a support adapted to deflect the cilia to load the channels from the multi-well tray.

well tray; and

- 12. The loading mechanism of claim 11, wherein the support comprises of posts to deflect individual cilia.
- 13. The loading mechanism of claim 12, wherein the posts are configured such that the support can load from a row of the multi-well tray with each deflection.
- 14. The loading mechanism of claim 12, wherein the channels are configured such that the support can load from a row of the multi-well tray with each deflection.
- 15. The loading mechanism of claim 12, wherein each well in the multi-well tray corresponds to a different channel in the channel device.

- 16. The loading mechanism of claim 11, wherein the cilia comprise a shape-memory alloy adapted to provide resilience to return the cilia to an initial position after the deflection.
- 17. The loading mechanism of claim 11, wherein the cilia comprise a tendon element to control the deflection.
- 18. The loading mechanism of claim 11, wherein the cilia comprise an active mechanism to control the deflection.
- 19. The loading mechanism of claim 11, wherein the cilia are deformable.
- 20. A method for loading a channel device comprising: providing a multi-well tray; and deflecting at least one cilium from plurality of cilia adapted to fluidly communicate with a plurality of channels in the channel device.
- 21. The method of claim 20, wherein deflecting comprises positioning a support to deflect at least one cilium.
- 22. The method of claim 21, further comprising positioning at least one of the channel device and the multi-well tray to align the cilia to posts connect to the support.
- 23. The method of claim 22, further comprising loading sample from the multi-well tray into the channels.
- 24. A method for electrophoretic separation comprising: providing a channel device comprising a substrate comprising a plurality of channels and a plurality of deflectable cilia in fluid communication with the plurality of channels;

providing a multi-well tray;

providing a loading mechanism to deflect the cilia to load the channels from the multi-well tray;

deflecting at least one cilium to load at least one sample from the multiwell tray;

deflecting the plurality of cilia into a buffer tray; and providing electric current for the electrophoretic separation.

- 25. The method of claim 24, further comprising loading the channel device.
- 26. The method of claim 25, wherein loading comprises positioning at least one of the channel device and the multi-well plate.
- 27. The method of claim 24, further comprising detecting electrophoretic separation information from a detection zone on the channel device.